FUELS AUTOMATED SYSTEM (FAS)

DLA ACAT IAM Program
    Total Number of Systems: 426 Base Level systems
                                   1 Enterprise Level system
    Total Program Cost (TY$): $78M
    Life Cycle Cost (TY$) $190M
    Full-rate production: 1QFY97 for Base Level
                                     3QFY00 for Enterprise Level

Prime Contractor
    Coggins Systems (Base Level)
    Oracle Corporation (Enterprise Level)

SYSTEM DESCRIPTION & CONTRIBUTION TO JOINT VISION 2010

The Fuels Automated System (FAS) is an integrated relational data base system using an open system architecture design. Ultimately, FAS will consist of two levels–Base and Enterprise– that will collectively provide an automated, integrated, and responsive system for managing DoD fuels. The Base Level system provides transaction data at the fuel distribution terminal, whereas the Enterprise Level system will handle procurement, supply, and financial functions. The Base Level System consists of 426 commercial-off-the-shelf (COTS) microcomputer servers and 1,342 COTS microcomputer workstations deployed to 622 Military Services and Defense Logistics Agency locations. The Enterprise Level system will comprise ten COTS mid-tier servers and existing office automation at the Defense Energy Support Command Headquarters, its regions, and field offices.

Designated as the Corporate Information Management initiative for the functional area of energy management, FAS will support the DoD fuels management with commercially available application software and take advantage of proven commercial business practices established in the petroleum

industry. FAS supports the ***Joint Vision 2010*** operational concept of ***focused logistics*** by integrating the fuels support systems to enable rapid responses to mobilization and crises.

BACKGROUND INFORMATION

The FAS program was initiated to accommodate evolving requirements for the fuels mission of the Defense Logistics Agency. FAS will increase fuel accountability at the Defense Fuel Supply Points, integrate automatic tank gauging and automated leak detection capabilities, provide a mechanism for specialized customer support through tailored terminal interfaces, and promote real-time data processing.

Since the completion of the Base Level system in FY97, the FAS PM has turned its attention to the Enterprise Level system. The Enterprise Level system comprises two increments. The Oracle Federal Financials will be used for the ships' Bunkers business unit. Oracle Energy Downstream, a COTS package that Oracle acquired from British Petroleum, will handle fuels purchases. Together, the two increments will provide functionality for accounts payable, accounts receivable, and general ledger, which constitute a complete solution for budgetary and proprietary accounting.

During an In-Process Review in August 1997, the FAS PM declared a schedule breach because of late software product deliverables from Oracle. The PM re-baselined the program and briefed the DoD Information Technology Overarching Integrated Product Team in October 1997. Throughout FY98 and FY99, implementation of the Enterprise Level system has been delayed because the vendor failed to incorporate all requirements for prompt payment and price escalation into the Government layer of the financial applications.

TEST & EVALUATION ACTIVITY

Bunkers user certification on the Oracle Federal Financials took place from August 1998-March 1999. The testing found 123 software deficiencies; 100 have since been fixed and closed. The remaining deficiencies are in the process of being resolved. In 2QFY99, an analysis of the Oracle Energy Downstream was completed. This analysis provided confidence that the COTS product would adequately meet the petroleum operating needs and that it would integrate well with the Oracle Federal Financials product. In addition, the analysis identified opportunities for improving business processes.

The Enterprise Level system DT planned for 1QFY99 was deferred until 1QFY00 because of the delay in completing the ships' Bunkers application. Planning for an EOA of Bunkers began during 3QFY99. The Bunkers EOA will be conducted during DT to identify programmatic risk and support subsequent OT activities.

TEST & EVALUATION ASSESSMENT

JITC conducted IOT&E for the Base Level system in FY96 and FY97, in accordance with a TEMP approved by DOT&E in August 1996. During the early part of testing, the system configuration, training, and support concepts proved to be immature. By the end of four months of testing, the Program Management Office (PMO) had incorporated many system improvements into the site configurations. Evaluations by JITC and DOT&E showed that the Base Level was operationally effective and

operationally suitable. In 1QFY97, the PMO received approval to begin fielding the Base Level system to the Defense Logistics Agency and Services locations.

The combined DT/OT for the integrated FAS system is scheduled for 2QFY00, followed by a dedicated OT in April 2000. Due to the significant program baseline and system architectural changes for the Enterprise Level system, the TEMP is being updated to reflect current performance and schedule requirements. During OT, special emphasis will be placed on the integration and interoperability of the Enterprise Level and Base Level systems supporting the DoD fuels management missions.